

Product Name: MRS 2905

Catalog No.: 5633

Batch No.: 5

IUPAC Name: 2-Thiouridine-5'-O-(α , β -methylene)diphosphate trisodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₃N₂Na₃O₁₀P₂S

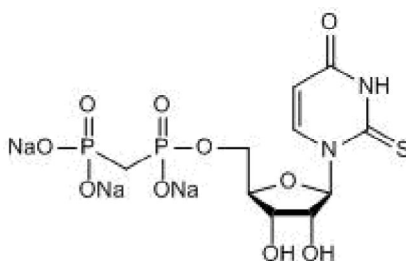
Batch Molecular Weight: 484.2

Physical Appearance: lyophilised solid

Solubility: water to 45 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity

Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: MRS 2905

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5

IUPAC Name: 2-Thiouridine-5'-O-(α , β -methylene)diphosphate trisodium salt

Description:

MRS 2905 is a potent and selective P2Y₁₄ receptor agonist (EC₅₀ = 0.92 nM). Exhibits >2000-fold selectivity over P2Y₆.

Physical and Chemical Properties:

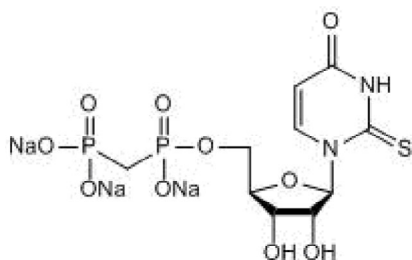
Batch Molecular Formula: C₁₀H₁₃N₂Na₃O₁₀P₂S

Batch Molecular Weight: 484.2

Physical Appearance: lyophilised solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 45 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lazarowski et al (2015) UDP-sugars as extracellular signaling molecules: cellular and physiologic consequences of P2Y₁₄ receptor activation. *Mol.Pharmacol.* **88** 151. PMID: 25829059.

Das et al (2010) Human P2Y₁₄ receptor agonists: truncation of the hexose moiety of uridine-5'-diphosphoglucose and its replacement with alkyl and aryl groups *J.Med.Chem.* **53** 471. PMID: 19902968.

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